

HCT CO., LTD.

CERTIFICATE OF COMPLIANCE

FCC Certification

Applicant Name:

LG Electronics MobileComm U.S.A., Inc.

Address:

10101 Old Grove Road, San Diego, CA 92131

Date of Issue:

May 10, 2012

Test Site/Location:

HCT CO., LTD., 105-1, Jangam-ri, Majang-Myeon,

Icheon-si, Kyunggi-Do, Korea

Report No.: HCTR1205FR16

HCT FRN: 0005866421

FCC ID:

ZNFP880

APPLICANT:

LG Electronics MobileComm U.S.A., Inc.

FCC Model(s):

LG-P880

Additional

FCC Model(s):

P880, LGP880

EUT Type:

Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC

Max. RF Output Power:

Wi-Fi 802.11b (19.53 dBm) / Wi-Fi 802.11g (21.36 dBm)) / Wi-Fi 802.11n (19.65 dBm)

/ Wi-Fi 802.11a (5745 MHz ~5825 MHz) (16.27 dBm)/ Wi-Fi 802.11n (5745 MHz ~5825 MHz) (17.06 dBm)

Frequency Range:

2412 MHz - 2462 MHz (2.4 GHz Band)

5745 MHz - 5825 MHz (5.8 GHz Band)

Modulation type

CCK/DSSS/OFDM

FCC Classification:

Digital Transmission System(DTS)

FCC Rule Part(s):

Part 15.247

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)

Report prepared by

: Jong Seok Lee

Approved by

: Sang Jun Lee

Test engineer of RF Team

Geok Lee

Manager of RF Team

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FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		
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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCTR1205FR16	May 10, 2012	- First Approval Report

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1. GENERAL INFORMATION

Applicant: LG Electronics MobileComm U.S.A., Inc.

Address: 10101 Old Grove Road, San Diego, CA 92131

FCC ID: ZNFP880

EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC

Model name(s): LG-P880

Additional P880, LGP880

Model name(s):

Date(s) of Tests: March 10, 2012~ April 30, 2012

Contact person: Name: Cheol Goo Lee

Phone #: +82-2-2033-1111

Place of Tests: HCT Co., Ltd.

105-1, Jangam-ri , Majang-Myeon, Icheon-si, Kyunggi-Do, 467-811, KOREA.

(IC Recognition No.: 5944A-3)

2. EUT DESCRIPTION

EUT Type	Cellular/PC	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC			
FCC Model Name	LG-P880				
Additional FCC Model Name	P880, LGP880				
Power Supply	DC 3.7 V				
Battery type	Li-ion Battery(Standard)				
Frequency Range	TX: 2412 MHz ~ 2462 MHz, 5745 MHz – 5825 MHz				
	RX: 2412 N	MHz ~ 2462 MHz, 5745 MHz – 5825 MHz			
	Peak	Wi-Fi 802.11b (19.53 dBm) / Wi-Fi 802.11g (21.36 dBm)) / Wi-Fi 802.11n(2.4 GHz) (19.65 dBm) / Wi-Fi 802.11a (5.8 GHz) (16.27 dBm)/ Wi-Fi 802.11n (5.8 GHz) (17.06 dBm)			
Max. RF Output Power:	Average	Wi-Fi 802.11b (12.96 dBm) / Wi-Fi 802.11g (12.64 dBm)) / Wi-Fi 802.11n(2.4 GHz) (11.05 dBm) / Wi-Fi 802.11a (5.8 GHz) (7.76 dBm)/ Wi-Fi 802.11n (5.8 GHz) (8.39 dBm)			
Modulation Type	DSSS/CCK(802.11b), OFDM(802.11a, 802.11g, 802.11n)				
Antenna Specification	Manufacturer: Mobitech				
	Antenna type: Built-in Antenna				
	Peak Gain	: -2.19 dBi (2.4 GHz Band), -0.56 dBi (5.8 GHz Band)			

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3. TEST METHODOLOGY

The measurement procedure described in the American National Standard for Testing Unlicensed Wireless Devices(ANSI C63.10-2009) and FCC KDB 558074 D01 DTS Meas Guidance V01 dated January 18, 2012 entitled "Guidance for Performing Compliance Measurements on Digital Transmission Systems(DTS) Operating Under §15.247" were used in the measurement.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10. (Version :2009) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 6.3 of ANSI C63.10. (Version: 2009).

3.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low, mid and high with highest data rate (worst case) is chosen for full testing.

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4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 105-1, Jangam-ri, Majang-Myeon, Icheon-si, Kyunggi-Do, 467-811, Korea. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2003) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated March 02, 2011 (Registration Number: 90661)

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

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6. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

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^{*} The antennas of this E.U.T are permanently attached.

^{*}The E.U.T Complies with the requirement of §15.203



7. SUMMARY TEST OF RESULTS

Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
6 dB Bandwidth	§15.247(a)(2)	> 500 kHz		PASS
Conducted Maximum Peak Output Power	§15.247(b)(3)	< 1 Watt		PASS
Power Spectral Density	§15.247(e)	< 8 dBm / 3 kHz Band	CONDUCTED	PASS
Band Edge(Out of Band Emissions)	§15.247(d)	Conducted < 20 dBc		PASS
AC Power line Conducted Emissions	§15.207	cf. Section 8.6		PASS
Radiated Spurious Emissions	§15.205, 15.209	cf. Section 8.5.1	RADIATED	PASS
Radiated Restricted Band Edge	§15.247(d), 15.205, 15.209	cf. Section 8.5.2	RADIATED	PASS

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8. TEST RESULT

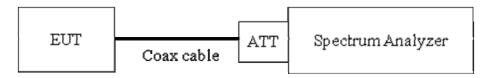
8.1 6dB BANDWIDTH MEASUREMENT (802.11a/b/g/n)

Test Requirements and limit, §15.247(a)(2)

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies.

The minimum permissible 6dB bandwidth is 500 kHz.

■ TEST CONFIGURATION



■ TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to

RBW: 430 kHz VBW: 1.3 MHz SPAN: 40 MHz

■ TEST RESULTS

Conducted 6dB Bandwidth Measurements for 802.11b

802.11b Mode		Measured Bandwidth	Minimum Bandwidth		
Frequency [MHz]	Frequency [MHz] Channel No.		[MHz]	Pass / Fail	
2412	1	8.269	0.500	Pass	
2437	6	8.285	0.500	Pass	
2462	11	8.271	0.500	Pass	

Conducted 6dB Bandwidth Measurements for 802.11g

802.11g Mode		Measured Bandwidth	Minimum Bandwidth	
Frequency [MHz]	Channel No.	[MHz]	[MHz]	Pass / Fail
2412	1	15.773	0.500	Pass
2437	6	16.019	0.500	Pass
2462	11	16.253	0.500	Pass

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Conducted 6dB Bandwidth Measurements for 802.11n

802.11n Mode		Measured Bandwidth	Minimum Bandwidth	
Frequency [MHz]	Channel No.	[MHz]	[MHz]	Pass / Fail
2412	1	17.511	0.500	Pass
2437	6	17.251	0.500	Pass
2462	11	17.239	0.500	Pass

Conducted 6dB Bandwidth Measurements for 802.11a

802.11a Mode		Measured Bandwidth	Minimum Bandwidth		
Frequency [MHz]	Frequency [MHz] Frequency [MHz]		[MHz]	Pass / Fail	
5745	149	16.062	0.5	Pass	
5785	157	16.218	0.5	Pass	
5825	165	15.790	0.5	Pass	

Conducted 26dB Bandwidth Measurements for 802.11n

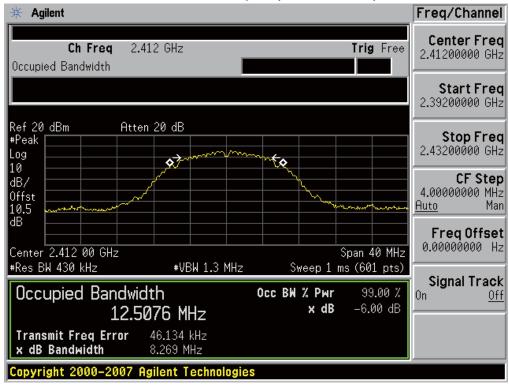
802.11n Mode		Measured Bandwidth	Minimum Bandwidth	
Frequency [MHz]	Channel No.	[MHz]	[MHz]	Pass / Fail
5745	149	17.322	0.5	Pass
5785	157	17.403	0.5	Pass
5825	165	17.576	0.5	Pass

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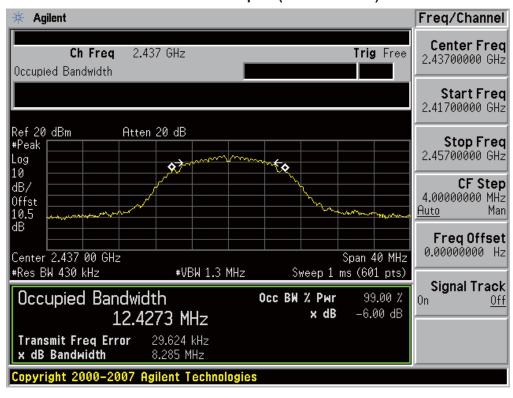


RESULT PLOTS

6dB Bandwidth plot (802.11b-CH 1)



6dB Bandwidth plot (802.11b-CH 6)

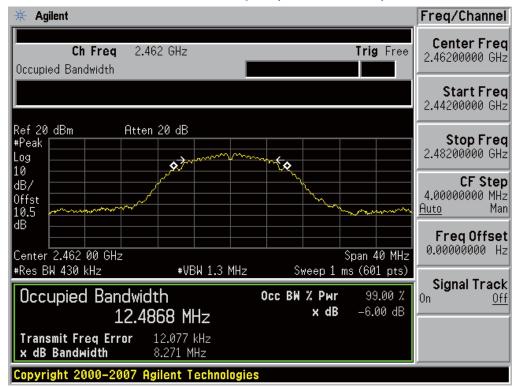


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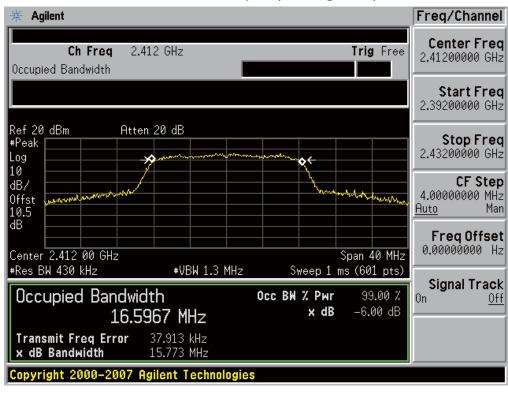
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6dB Bandwidth plot (802.11b-CH 11)



6dB Bandwidth plot (802.11g-CH 1)

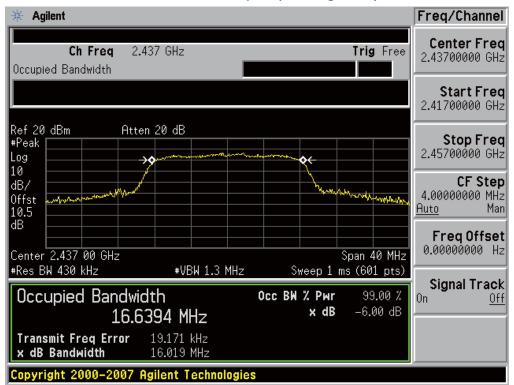


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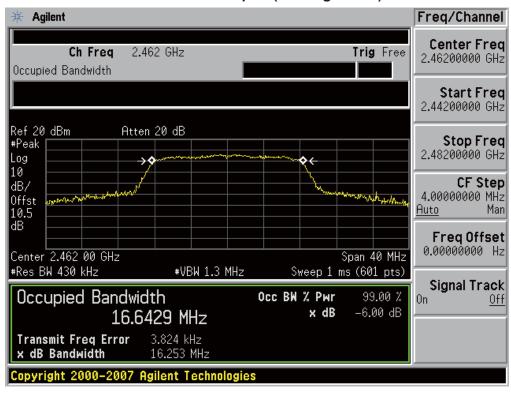
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6dB Bandwidth plot (802.11g-CH 6)



6dB Bandwidth plot (802.11g-CH 11)

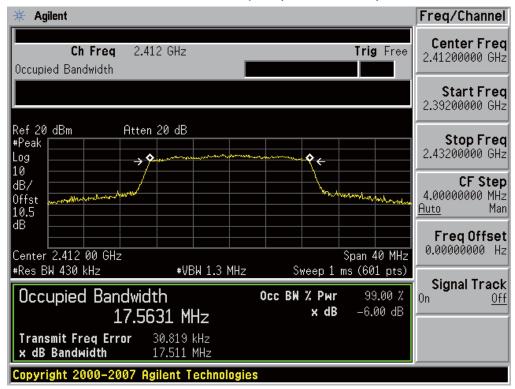


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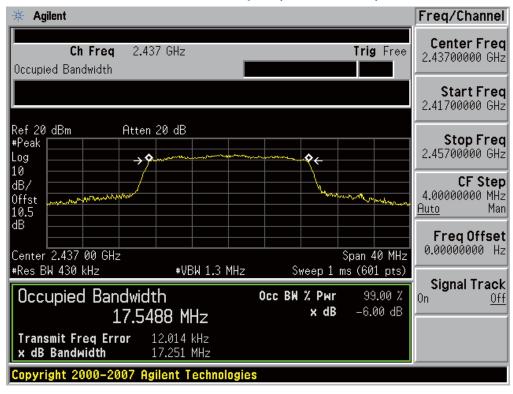
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6dB Bandwidth plot (802.11n-CH 1)



6dB Bandwidth plot (802.11n-CH 6)

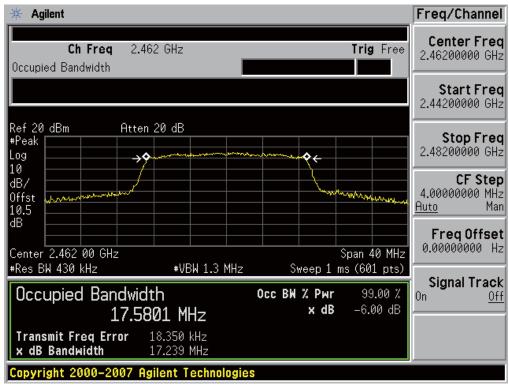


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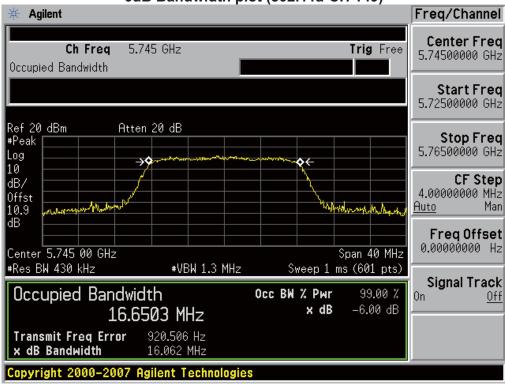
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6dB Bandwidth plot (802.11n-CH 11)



6dB Bandwidth plot (802.11a-CH 149)

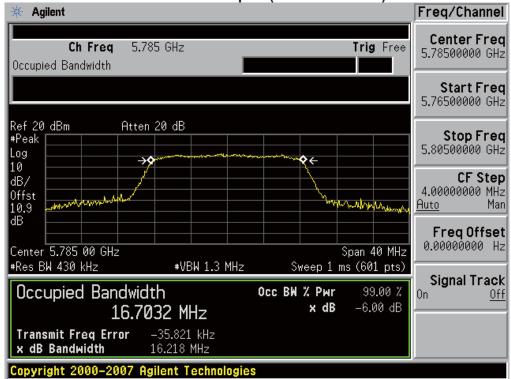


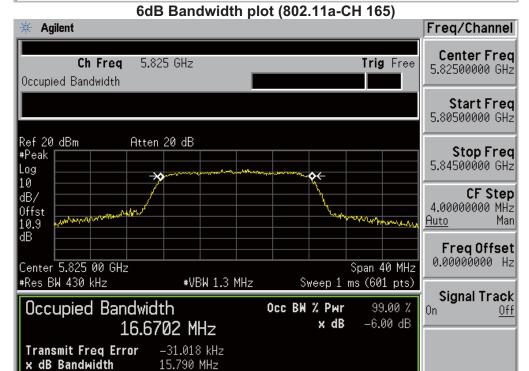
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6dB Bandwidth plot (802.11a-CH 157)





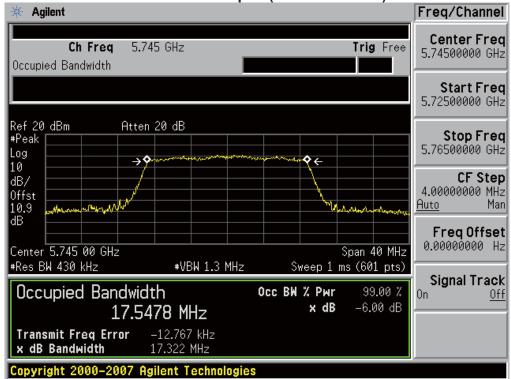
FCC PT.15.247 TEST REPORT		www.hct.co.kr	
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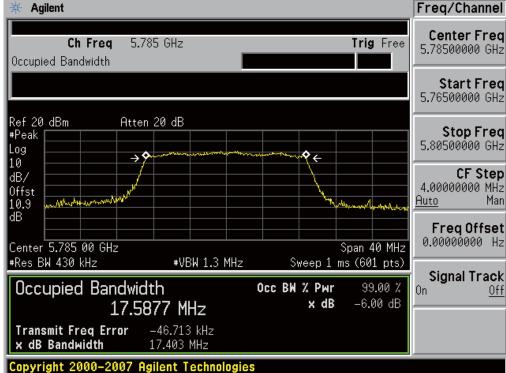
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6dB Bandwidth plot (802.11n-CH 149)





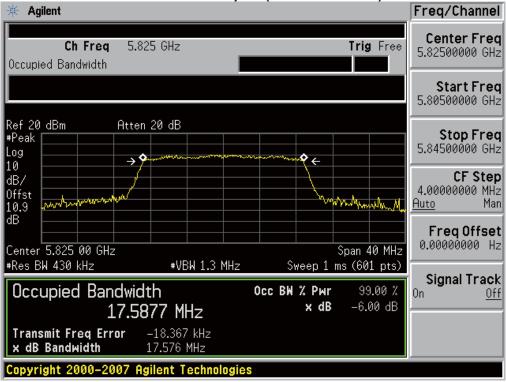


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6dB Bandwidth plot (802.11n-CH 165)



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8.2 OUTPUT POWER MEASUREMENT (802.11a/b/g/n)

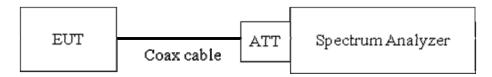
Test Requirements and limit, §15.247(b)(3)

A transmitter antenna terminal of EUT is connected to the input of a Spectrum Analyzer.

Measurement is made while the EUT is operating in transmission mode at the appropriate frequencies.

The maximum permissible conducted output power is 1 Watt.

TEST CONFIGURATION



■ TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer. We use the spectrum analyzer's integrated band power measurement function. We tested according to KDB 558074(issued 1/18/2012).

This EUT TX condition is actual operating mode(not near 100 % duty cycle) by WLAN test program.

The Spectrum Analyzer is set to

Peak Power

RBW = 1 MHz

VBW = 3 MHz

SPAN = 5 - 30 % greater than the EBW

Detector Mode = Peak

Integrated bandwidth = EBW

Average Power

RBW = 1 MHz

VBW = 3 MHz

SPAN = 5 - 30 % greater than the EBW

Detector Mode = Average

Integrated bandwidth = EBW

Sample Calculation

Note:

1. Spectrum reading values are not plot data. The power results in plot is already including the actual values of loss for the attenuator and cable combination.

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- 2. Spectrum offset = Attenuator loss + Cable loss
- 3. We apply to the offset in the 2.4 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the attenuator and cable combination is 10.49 dB at 2412 MHz and is 10.52 dB at 2462 MHz. So, the offset is 10.5 dB. And the offset gab in the 2.4 GHz range do not affect the conducted output power final result.
- 4. We apply to the offset in the 5.8 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the attenuator and cable combination is 10.91 dB at 5745 MHz, 10.94 dB at 5785 MHz and 5825 MHz.

■ TEST RESULTS-Peak

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		1 Mbps	15.44	30
2412	1	2 Mbps	15.76	30
2412	•	5.5 Mbps	17.41	30
		11 Mbps	19.21	30
		1 Mbps	15.63	30
2437	6	2 Mbps	15.94	30
2437	0	5.5 Mbps	17.45	30 30
		11 Mbps	19.18	
		1 Mbps	15.97	30
0.400	11	2 Mbps	16.13	30
2462	11	5.5 Mbps	17.86	30
		11 Mbps	19.53	30

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Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6 Mbps	20.57	30
		9 Mbps	20.51	30
		12 Mbps	20.58	30
2412	4	18 Mbps	20.47	30
2412	1	24 Mbps	21.04	30
		36 Mbps	21.03	30
		48 Mbps	21.04	30
		54 Mbps	21.01	30
		6 Mbps	20.49	30
		9 Mbps	20.53	30
		12 Mbps	20.63	30
2437	6	18 Mbps	20.54	30
2437	0	24 Mbps 21.03	21.03	30
		36 Mbps	20.94	30
		48 Mbps	21.10	30
		54 Mbps	21.07	30
		6 Mbps	20.80	30
		9 Mbps	20.73	30
		12 Mbps	20.87	30
2462	11	18 Mbps	20.84	30
2402	''	24 Mbps	21.36	30
		36 Mbps	21.25	30
		48 Mbps	21.30	30
		54 Mbps	21.30	30

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Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6.5 Mbps	19.25	30
		13 Mbps	19.34	30
		19.5 Mbps	19.31	30
2442	4	26 Mbps	19.49	30
2412	1	39 Mbps	19.38	30
		52 Mbps	19.50	30
		58.5 Mbps	19.52	30
		65 Mbps	19.50	30
		6.5 Mbps	19.01	30
	6	13 Mbps	19.17	30
		19.5 Mbps	18.95	30
2437		26 Mbps	19.59	30
2437		39 Mbps	19.51	30
		52 Mbps	19.52	30
		58.5 Mbps	19.59	30
		65 Mbps	19.48	30
		6.5 Mbps	19.13	30
		13 Mbps	19.18	30
		19.5 Mbps	19.14	30
2462	11	26 Mbps	19.59	30
2402	11	39 Mbps	19.46	30
		52 Mbps	19.53	30
		58.5 Mbps	19.65	30
		65 Mbps	19.65	30

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Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6 Mbps	15.92	30
		9 Mbps	15.84	30
		12 Mbps	15.72	30
57.45	440	18 Mbps	15.75	30
5745	149	24 Mbps	16.27	30
		36 Mbps	16.04	30
		48 Mbps	16.12	30
		54 Mbps	16.14	30
		6 Mbps	15.19	30
	157	9 Mbps	15.21	30
		12 Mbps	15.29	30
5705		18 Mbps	15.15	30
5785		24 Mbps	15.64	30
		36 Mbps	15.64	30
		48 Mbps	15.70	30
		54 Mbps	15.61	30
		6 Mbps	14.86	30
		9 Mbps	14.84	30
		12 Mbps	14.72	30
5825	165	18 Mbps	14.63	30
5 0∠5	105	24 Mbps	15.27	30
		36 Mbps	15.20	30
		48 Mbps	15.31	30
		54 Mbps	15.30	30

FCC PT.15.247 TEST REPORT		FCC CERTIFICATION REPORT		
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:	
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Conducted Output Power Measurements (802.11n Mode: 5745~5825)

802.11n Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6.5 Mbps	16.47	30
		13 Mbps	16.53	30
		19.5 Mbps	16.52	30
E74E	149	26 Mbps	16.98	30
5745	149	39 Mbps	16.96	30
		52 Mbps	17.04	30
		58.5 Mbps	17.06	30
		65 Mbps	17.00	30
		6.5 Mbps	16.27	30
		13 Mbps	16.28	
		19.5 Mbps	16.36	30
5785	157	26 Mbps	16.85	30
5765	157	39 Mbps	16.85	30 30
		52 Mbps	16.87	30
		58.5 Mbps	16.95	30 30 30 30 30 30 30 30 30 30
		65 Mbps	16.81	30
		6.5 Mbps	16.04	30
		13 Mbps	16.20	30
		19.5 Mbps	16.22	30
5825	165	26 Mbps	16.51	30
	105	39 Mbps	16.52	30
		52 Mbps	16.53	30
		58.5 Mbps	16.60	30
		65 Mbps	16.58	30

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■ TEST RESULTS-Average

Conducted Output Power Measurements (802.11b Mode)

802.11b Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		1 Mbps	12.59	30
2412	1	2 Mbps	12.49	30
2412	'	5.5 Mbps	12.52	30
		11 Mbps	12.30	30
		1 Mbps	12.64	30
2437	6	2 Mbps	12.59	30
2437	0	5.5 Mbps	12.56	30
		11 Mbps	12.33	30
		1 Mbps	12.96	30
2462	44	2 Mbps	12.87	30
	11	5.5 Mbps	12.84	30
		11 Mbps	12.68	30

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Conducted Output Power Measurements (802.11g Mode)

802.11g Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6 Mbps	12.37	30
		9 Mbps	12.25	30
		12 Mbps	12.18	30
2412	1	18 Mbps	12.01	30
2412	1	24 Mbps	11.83	30
		36 Mbps	11.45	30
		48 Mbps	11.16	(dBm) 30 30 30 30 30 30 30 30 30 3
		54 Mbps	11.11	30
		6 Mbps	12.39	30
		9 Mbps	12.31	30
		12 Mbps	12.21	30
2437	6	18 Mbps	12.00	30
2437	0	24 Mbps	11.87	30
		36 Mbps	11.55	30 30 30 30 30 30 30 30 30 30
		48 Mbps	11.24	
		54 Mbps	11.05	
		6 Mbps	12.64	30
		9 Mbps	12.55	30
		12 Mbps	12.46	30
2462	11	18 Mbps	12.27	30
	''	24 Mbps	12.09	30
		36 Mbps	11.77	30
		48 Mbps	11.48	30
		54 Mbps	11.32	30

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Conducted Output Power Measurements (802.11n Mode)

802.11n Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6.5 Mbps	10.75	30
		13 Mbps	10.55	30
		19.5 Mbps	10.56	30
2412	4	26 Mbps	10.25	30
2412	1	39 Mbps	10.02	30
		52 Mbps	9.76	30
		58.5 Mbps	9.58	30
		65 Mbps	9.42	30
		6.5 Mbps	10.78	30
		13 Mbps	10.62	30
		19.5 Mbps	10.56	30
2437	6	26 Mbps	10.31	30
2437	6	39 Mbps	10.04	30
		52 Mbps	9.79	30
		58.5 Mbps	9.40	
		65 Mbps	9.51	30
		6.5 Mbps	11.05	30
		13 Mbps	10.87	30
		19.5 Mbps	10.67	30
2462	14	26 Mbps	10.56	30
	11	39 Mbps	10.22	30
		52 Mbps	9.92	30
		58.5 Mbps	9.77	30
		65 Mbps	9.72	30

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Conducted Output Power Measurements (802.11a Mode: 5745~5825)

802.11a Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6 Mbps	7.76	30
		9 Mbps	7.67	30
		12 Mbps	7.63	30
57.45	440	18 Mbps	7.37	30
5745	149	24 Mbps	7.20	(dBm) 30 30 30
		36 Mbps	6.77	
		48 Mbps	6.43	30
		54 Mbps	6.32	30
		6 Mbps	7.18	30
		9 Mbps	7.01	30 30 30 30 30 30 30 30 30 30
		12 Mbps	6.97	30
5705	457	18 Mbps	6.76	30
5785	157	24 Mbps	6.68	30 30 30 30 30 30 30 30 30 30
		36 Mbps	6.43	30
		48 Mbps	6.06	30 30 30 30 30 30 30 30 30 30
		54 Mbps	5.94	30
		6 Mbps	6.81	30
		9 Mbps	6.55	30
		12 Mbps	6.52	30
5825	405	18 Mbps	6.35	30
	165	24 Mbps	6.11	30
		36 Mbps	5.90	30 30 30 30 30 30 30 30 30 30
		48 Mbps	5.52	30
		54 Mbps	5.48	30

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Conducted Output Power Measurements (802.11n Mode: 5745~5825)

802.11n Mode		Rate	Measured	Limit
Frequency[MHz]	Channel No.	(Mbps)	Power(dBm)	(dBm)
		6.5 Mbps	8.39	30
		13 Mbps	8.16	30
		19.5 Mbps	7.97	30
E74E	149	26 Mbps	7.79	30
5745	149	39 Mbps	7.51	30
		52 Mbps	7.26	30 30
		58.5 Mbps	7.05	30
		65 Mbps	7.00	30
		6.5 Mbps	8.10	30
		13 Mbps	7.98	30
		19.5 Mbps	7.82	30
5785	157	26 Mbps	7.49	30
5765	157	39 Mbps	7.26	30
		52 Mbps	7.11	30
		58.5 Mbps	6.99	30 30 30 30 30 30 30 30 30 30
		65 Mbps	6.85	30
		6.5 Mbps	7.98	30
		13 Mbps	7.81	30
		19.5 Mbps	7.49	30
5825	165	26 Mbps	7.26	30
	100	39 Mbps	7.02	30
		52 Mbps	6.86	30
		58.5 Mbps	6.73	30
		65 Mbps	6.63	30

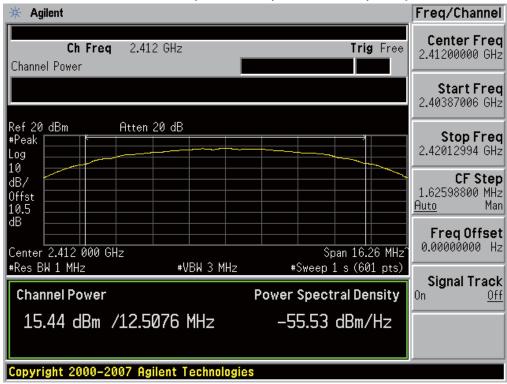
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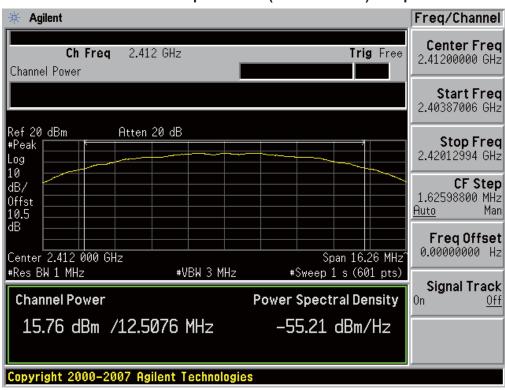


RESULT PLOTS-Peak

Conducted Output Power (802.11b-CH 1) 1Mbps



Conducted Output Power (802.11b-CH 1) 2Mbps

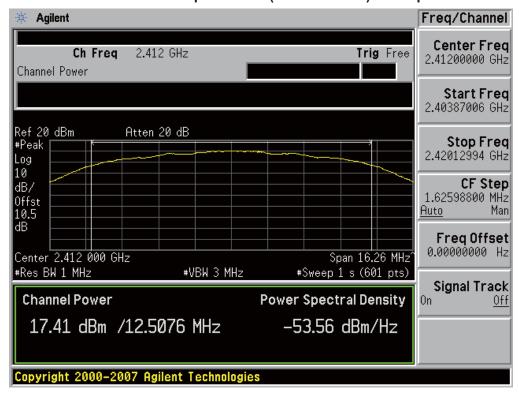


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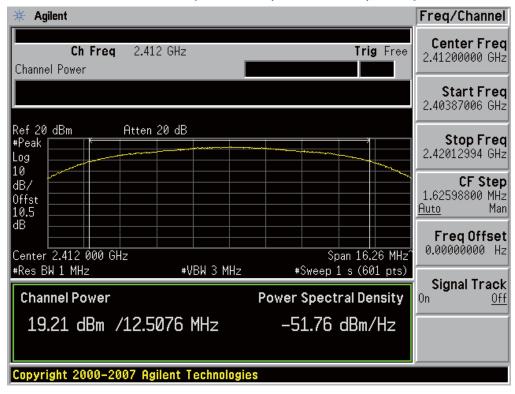
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Conducted Output Power (802.11b-CH 1) 5.5Mbps



Conducted Output Power (802.11b-CH 1) 11Mbps

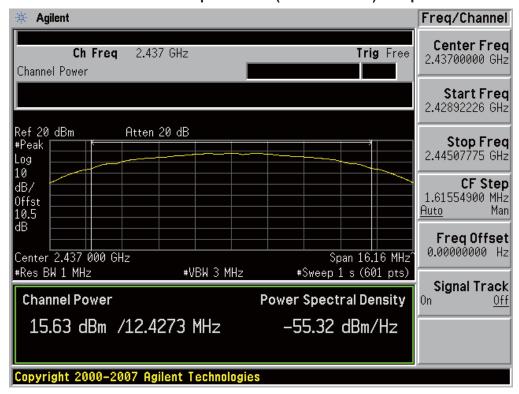


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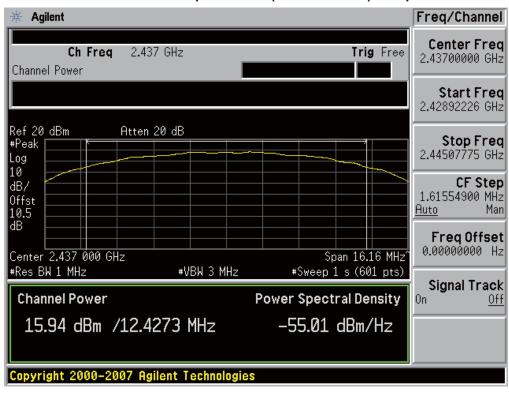
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Conducted Output Power (802.11b-CH 6) 1Mbps



Conducted Output Power (802.11b-CH 6) 2Mbps

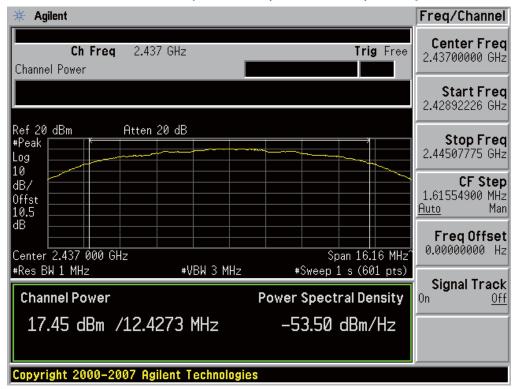


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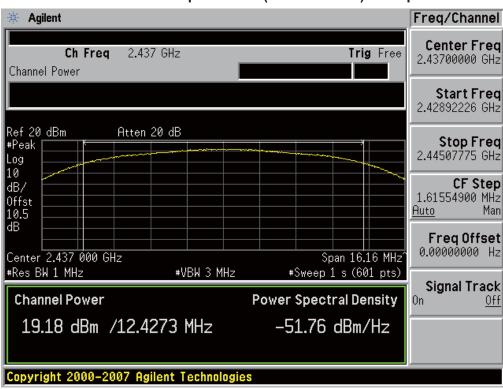
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Conducted Output Power (802.11b-CH 6) 5.5Mbps



Conducted Output Power (802.11b-CH 6) 11Mbps

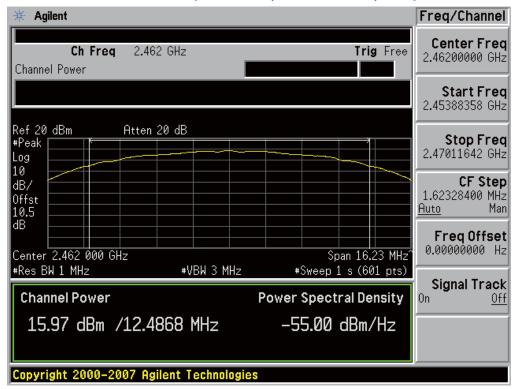


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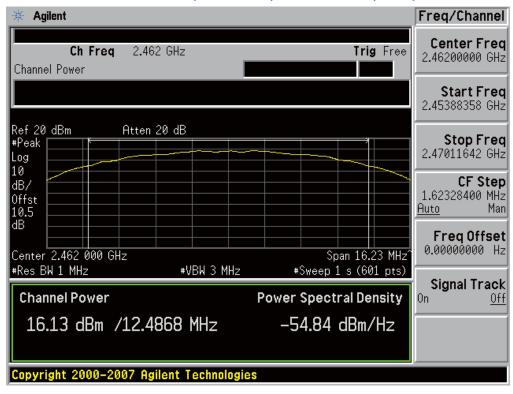
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Conducted Output Power (802.11b-CH 11) 1Mbps



Conducted Output Power (802.11b-CH 11) 2Mbps

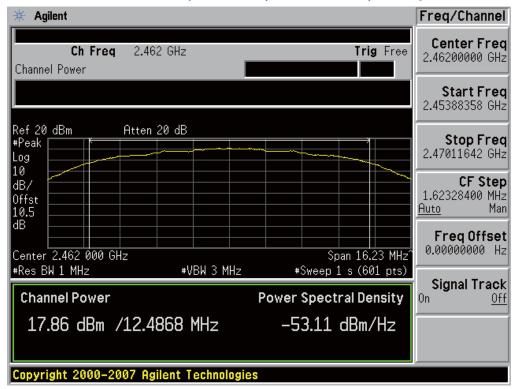


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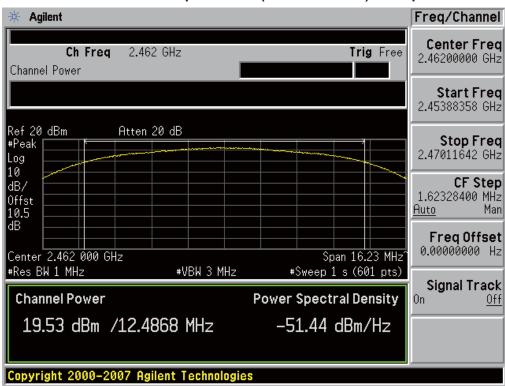
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Conducted Output Power (802.11b-CH 11) 5.5Mbps



Conducted Output Power (802.11b-CH 11) 11Mbps

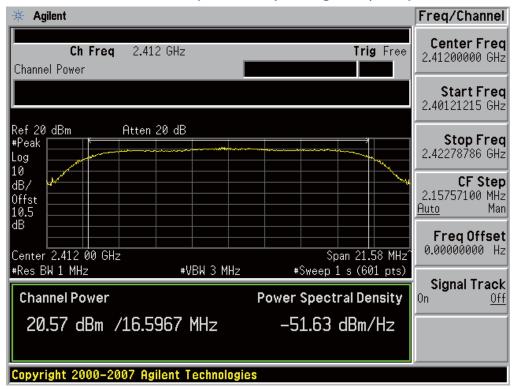


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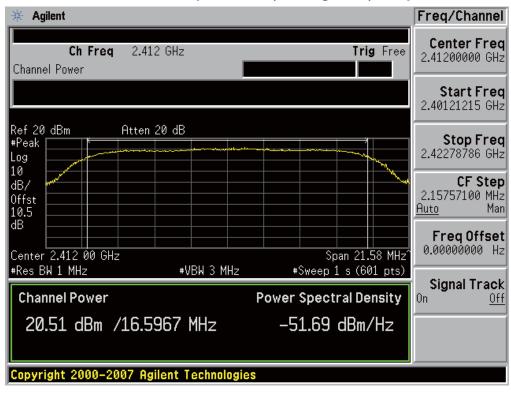
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Conducted Output Power (802.11g-CH 1) 6Mbps



Conducted Output Power (802.11g-CH 1) 9Mbps

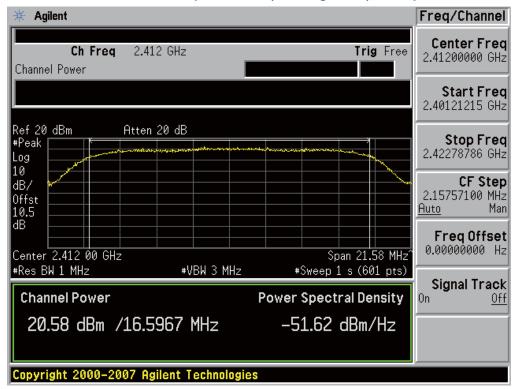


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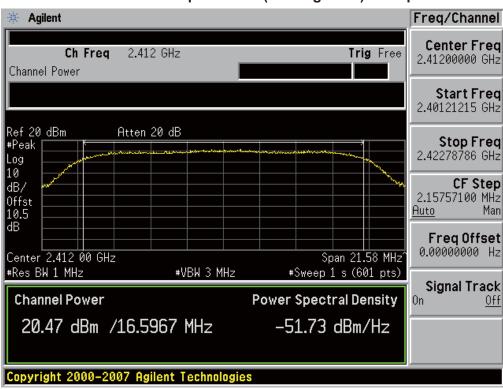
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Conducted Output Power (802.11g-CH 1) 12Mbps



Conducted Output Power (802.11g-CH 1) 18Mbps

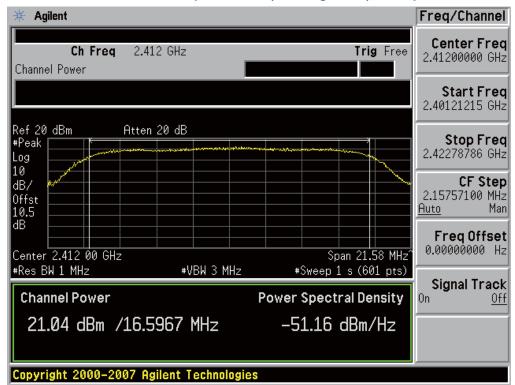


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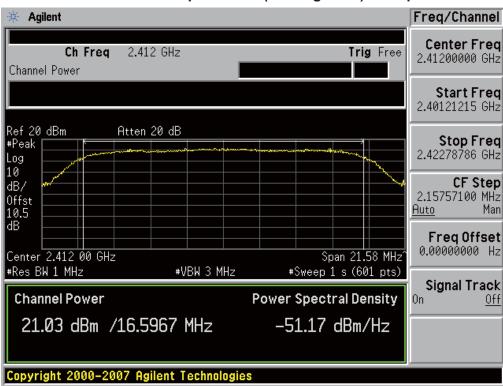
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Conducted Output Power (802.11g-CH 1) 24Mbps



Conducted Output Power (802.11g-CH 1) 36Mbps

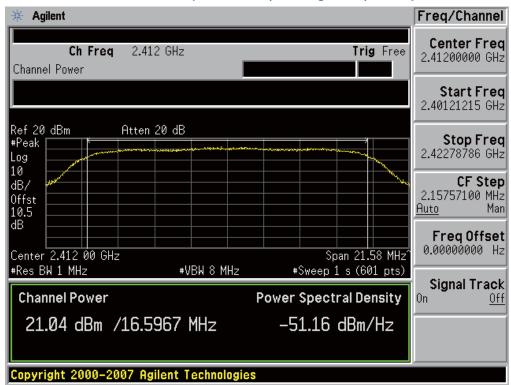


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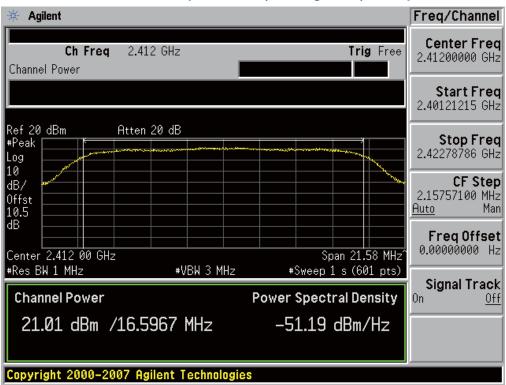
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Conducted Output Power (802.11g-CH 1) 48Mbps



Conducted Output Power (802.11g-CH 1) 54Mbps

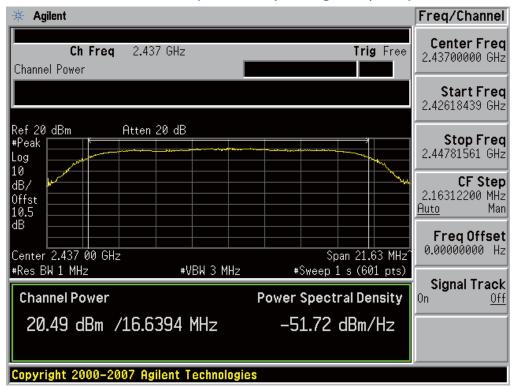


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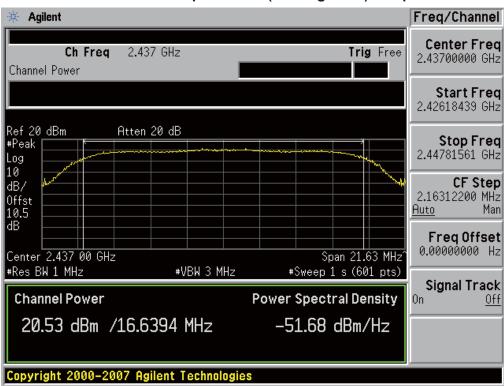
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Conducted Output Power (802.11g-CH 6) 6Mbps



Conducted Output Power (802.11g-CH 6) 9Mbps

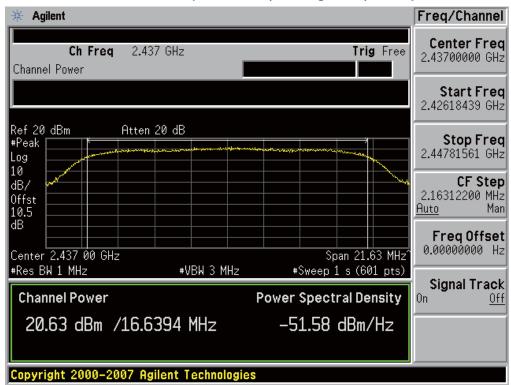


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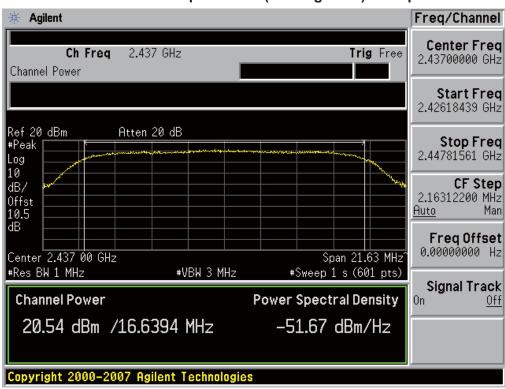
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Conducted Output Power (802.11g-CH 6) 12Mbps



Conducted Output Power (802.11g-CH 6) 18Mbps

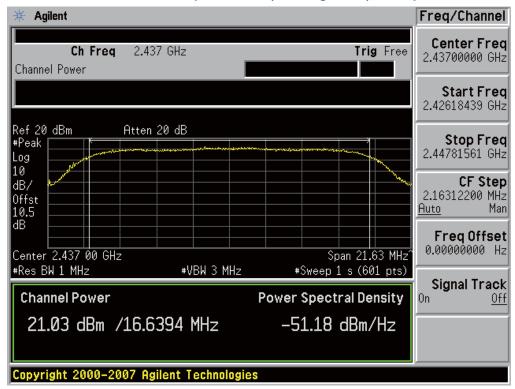


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
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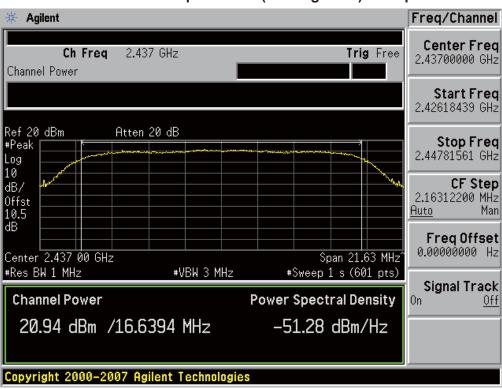
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Conducted Output Power (802.11g-CH 6) 24Mbps



Conducted Output Power (802.11g-CH 6) 36Mbps

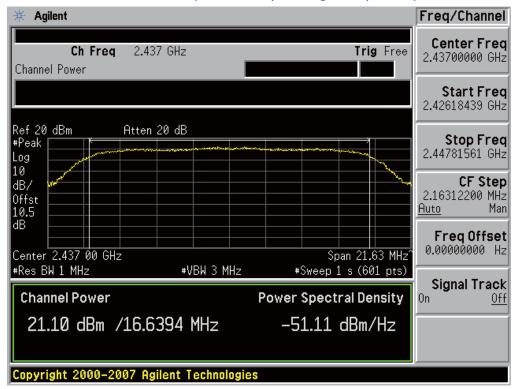


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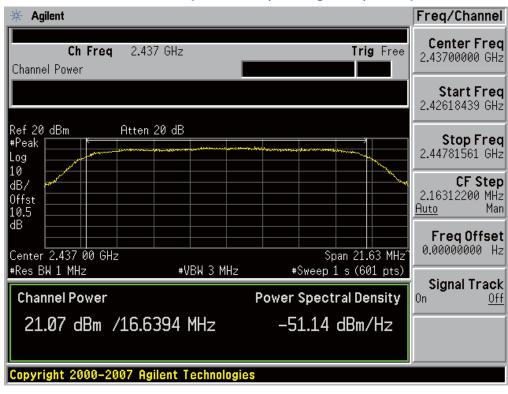
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Conducted Output Power (802.11g-CH 6) 48Mbps



Conducted Output Power (802.11g-CH 6) 54Mbps

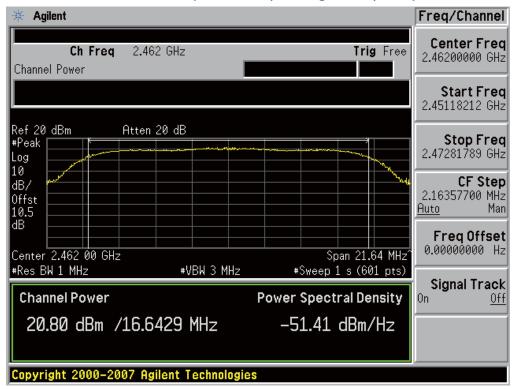


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

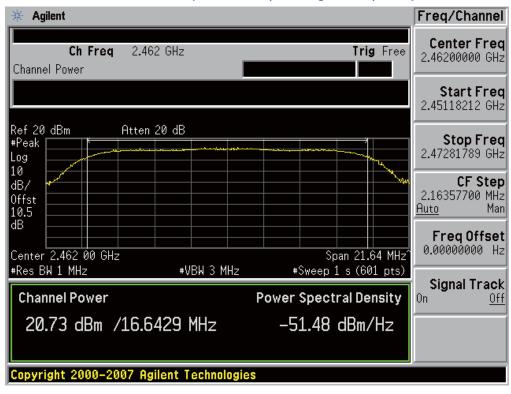
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Conducted Output Power (802.11g-CH 11) 6Mbps



Conducted Output Power (802.11g-CH 11) 9Mbps

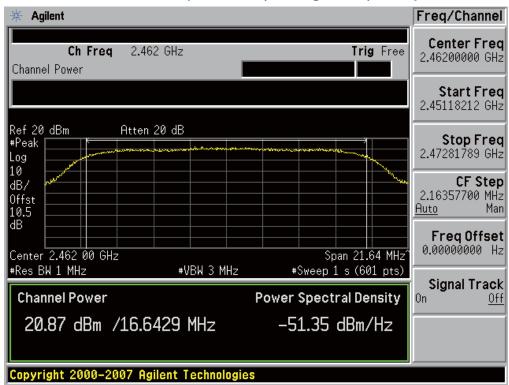


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

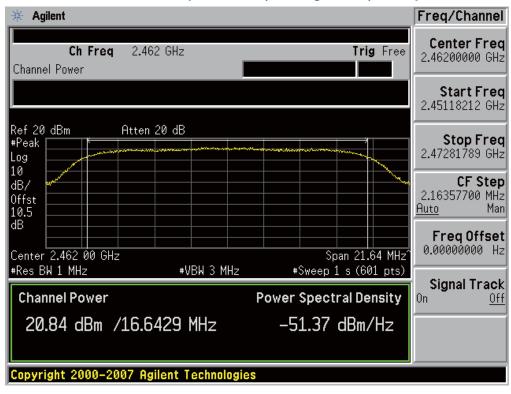
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Conducted Output Power (802.11g-CH 11) 12Mbps



Conducted Output Power (802.11g-CH 11) 18Mbps

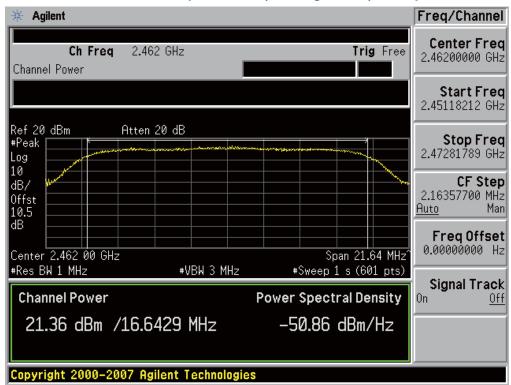


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

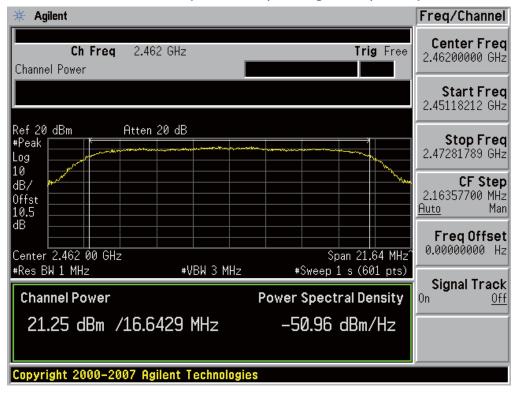
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Conducted Output Power (802.11g-CH 11) 24Mbps



Conducted Output Power (802.11g-CH 11) 36Mbps

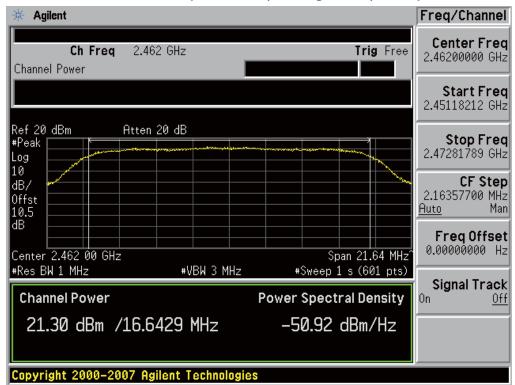


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

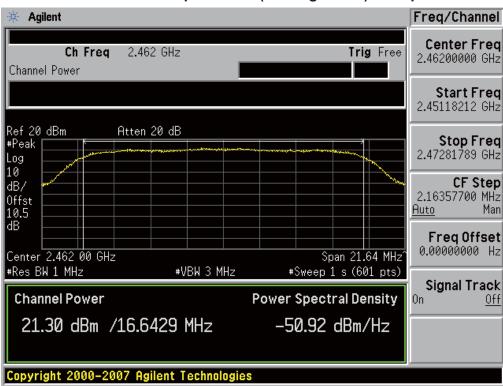
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Conducted Output Power (802.11g-CH 11) 48Mbps



Conducted Output Power (802.11g-CH 11) 54Mbps

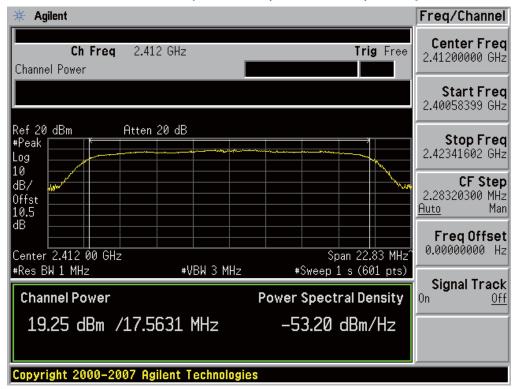


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

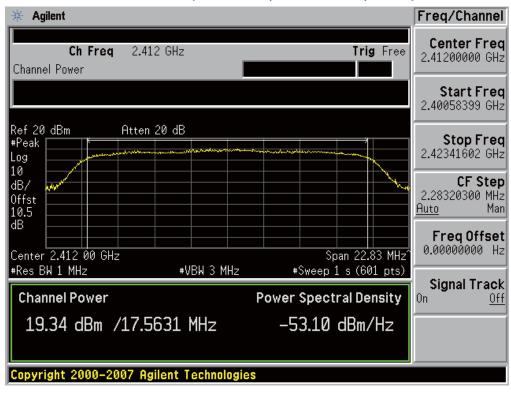
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Conducted Output Power (802.11n-CH 1) 6.5Mbps



Conducted Output Power (802.11n-CH 1) 13Mbps

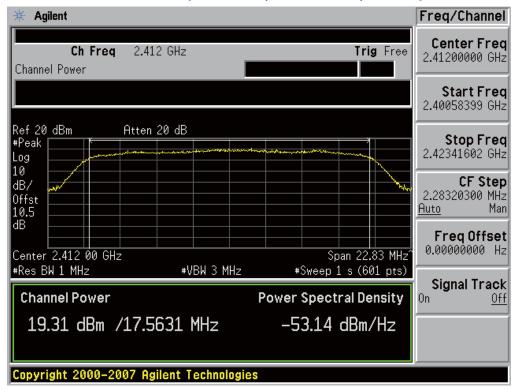


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

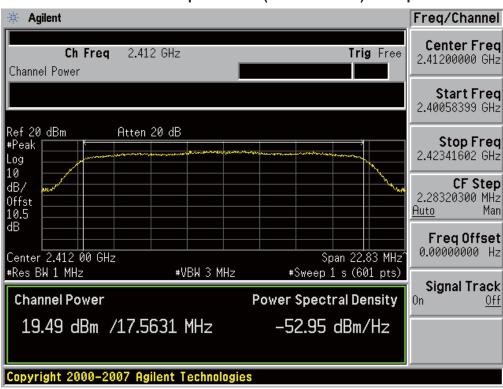
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Conducted Output Power (802.11n-CH 1) 19.5Mbps



Conducted Output Power (802.11n-CH 1) 26Mbps

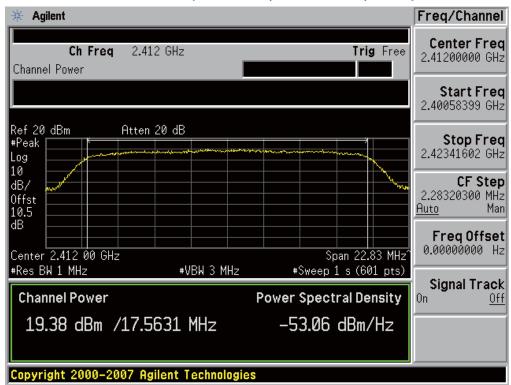


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

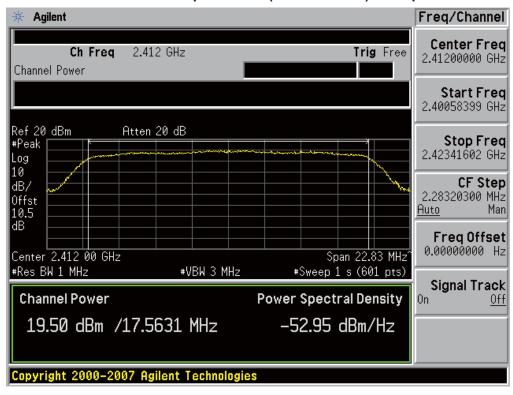
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Conducted Output Power (802.11n-CH 1) 39Mbps



Conducted Output Power (802.11n-CH 1) 52Mbps

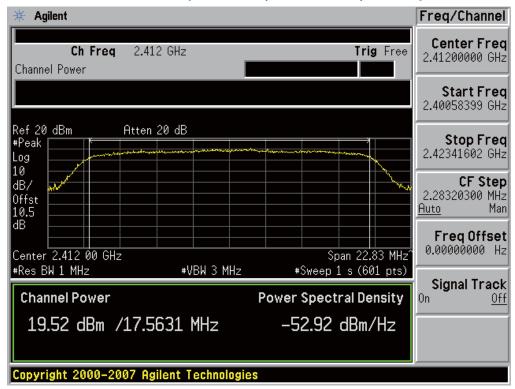


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

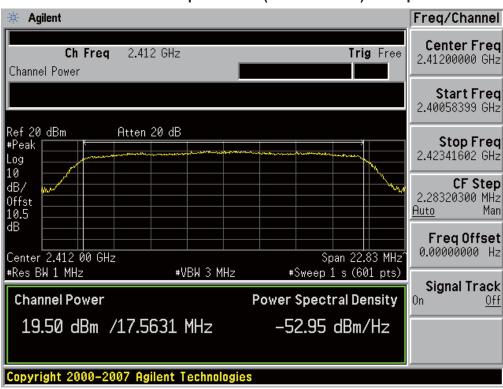
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Conducted Output Power (802.11n-CH 1) 58.5Mbps



Conducted Output Power (802.11n-CH 1) 65Mbps

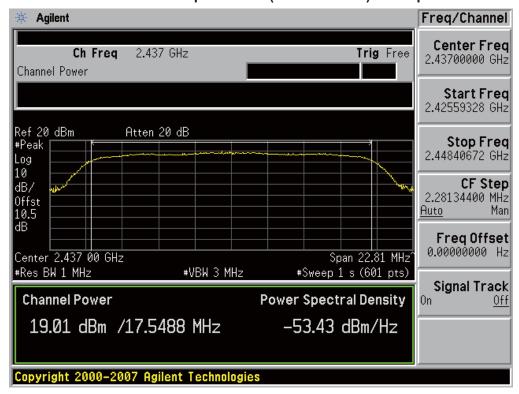


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

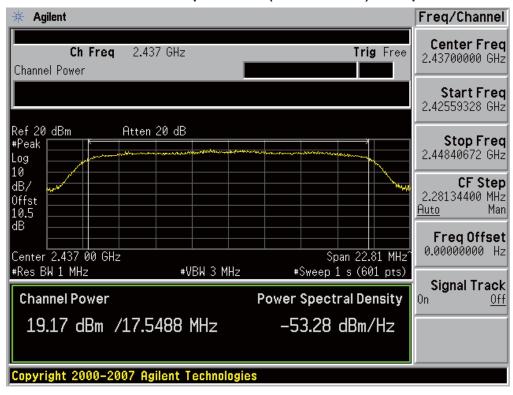
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Conducted Output Power (802.11n-CH 6) 6.5Mbps



Conducted Output Power (802.11n-CH 6) 13Mbps

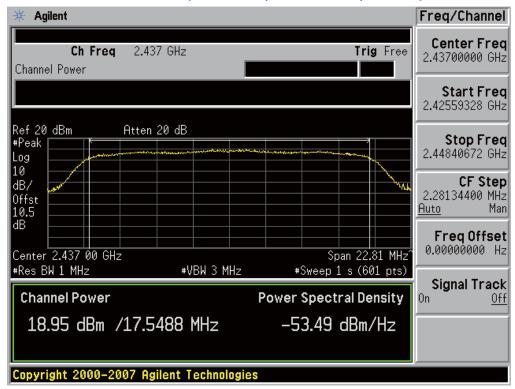


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

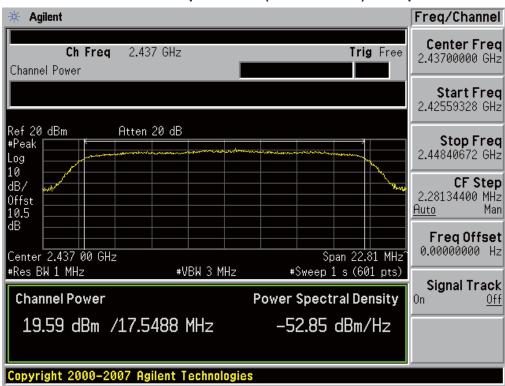
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Conducted Output Power (802.11n-CH 6) 19.5Mbps



Conducted Output Power (802.11n-CH 6) 26Mbps

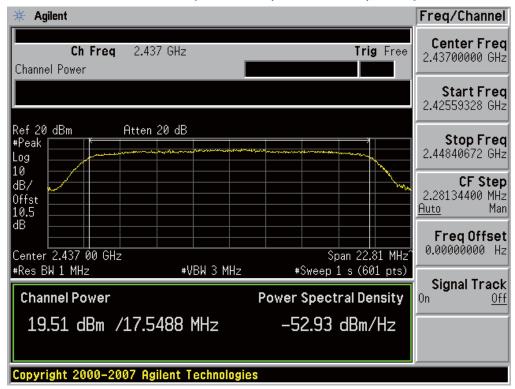


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

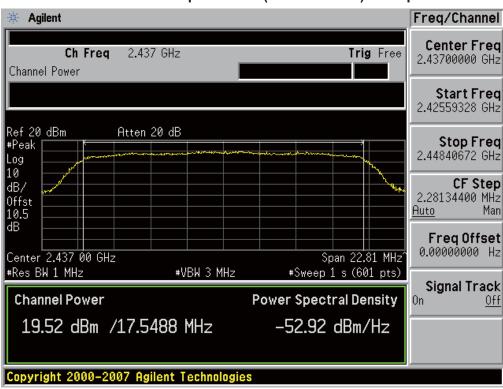
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Conducted Output Power (802.11n-CH 6) 39Mbps



Conducted Output Power (802.11n-CH 6) 52Mbps

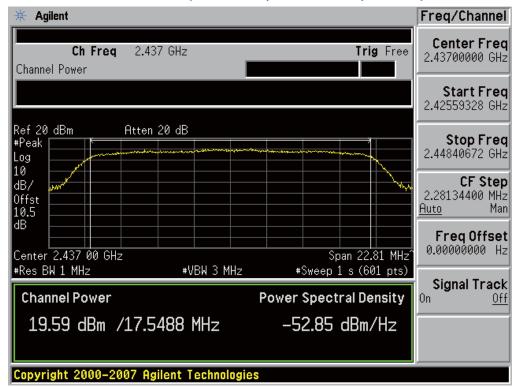


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

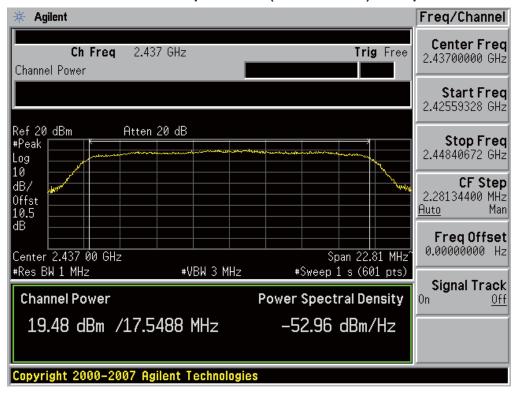
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Conducted Output Power (802.11n-CH 6) 58.5Mbps



Conducted Output Power (802.11n-CH 6) 65Mbps

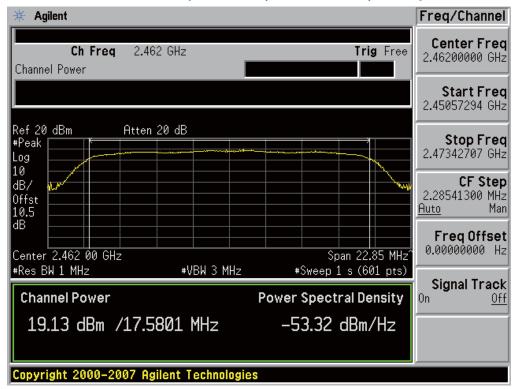


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

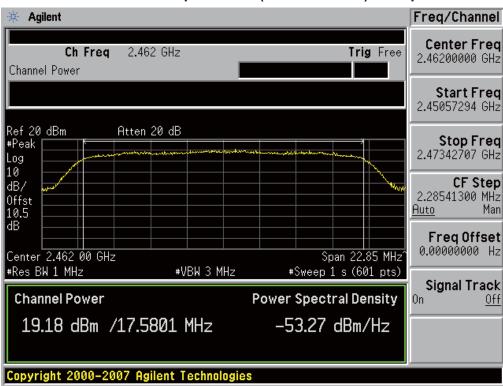
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Conducted Output Power (802.11n-CH 11) 6.5Mbps



Conducted Output Power (802.11n-CH 11) 13Mbps

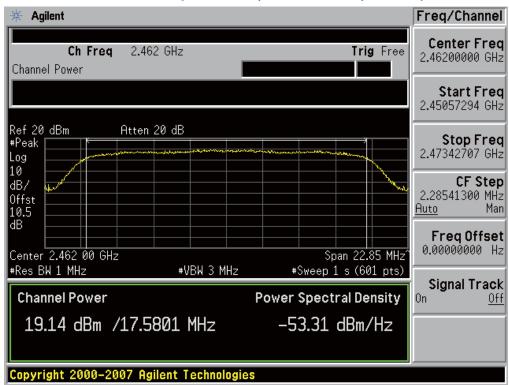


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

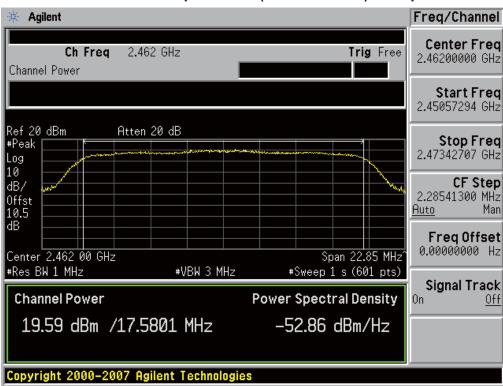
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Conducted Output Power (802.11n-CH 11) 19.5Mbps



Conducted Output Power (802.11n-CH 11) 26Mbps

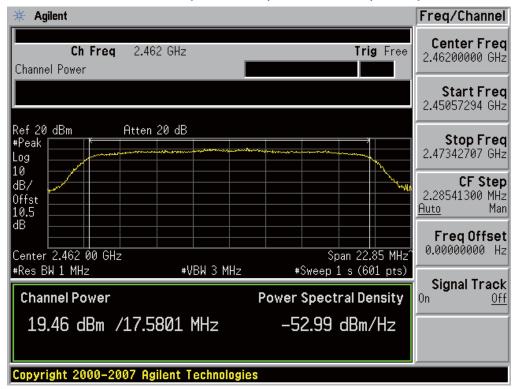


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

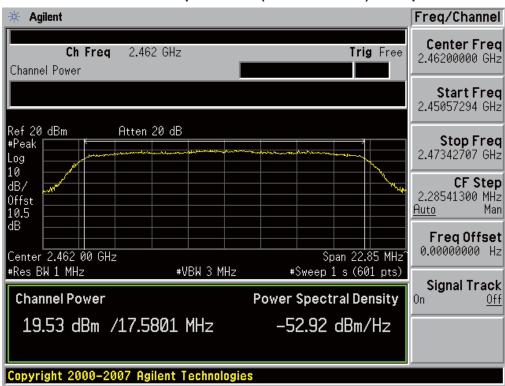
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Conducted Output Power (802.11n-CH 11) 39Mbps



Conducted Output Power (802.11n-CH 11) 52Mbps

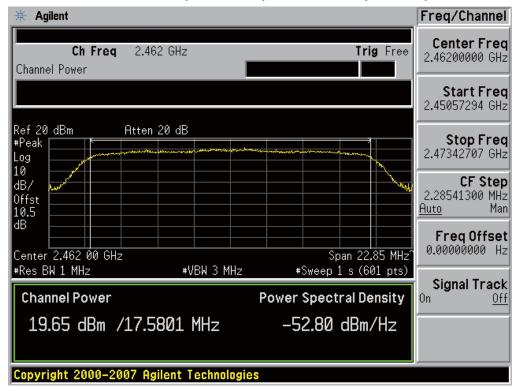


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

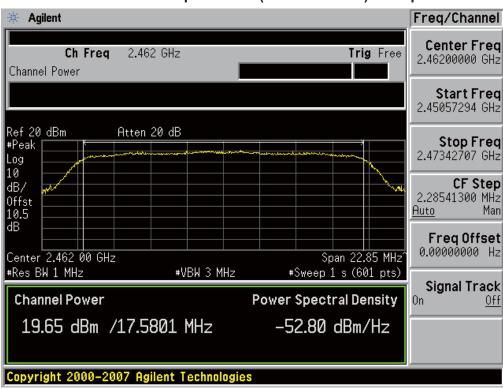
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Conducted Output Power (802.11n-CH 11) 58.5Mbps



Conducted Output Power (802.11n-CH 11) 65Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

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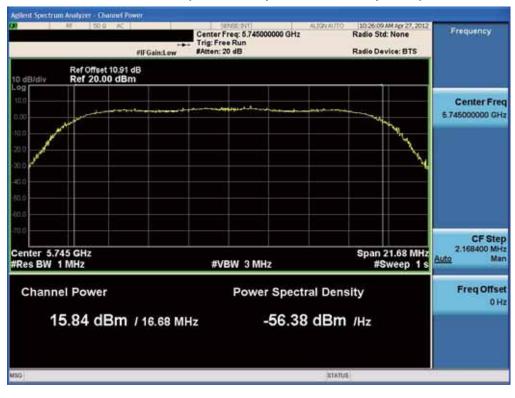


(5745 MHz ~5825 MHz)

Conducted Output Power (802.11a-CH 149) 6 Mbps



Conducted Output Power (802.11a-CH 149) 9 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

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Conducted Output Power (802.11a-CH 149) 12 Mbps



Conducted Output Power (802.11a-CH 149) 18 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

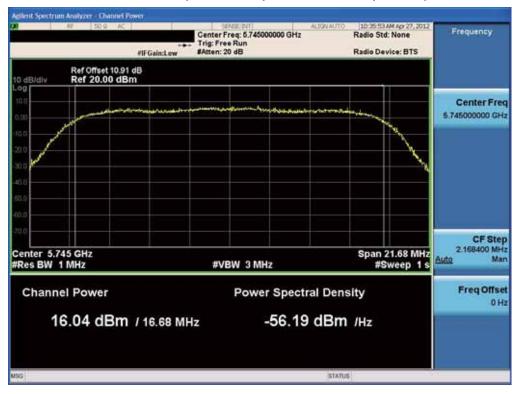
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Conducted Output Power (802.11a-CH 149) 24 Mbps



Conducted Output Power (802.11a-CH 149) 36 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

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Conducted Output Power (802.11a-CH 149) 48 Mbps



Conducted Output Power (802.11a-CH 149) 54 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

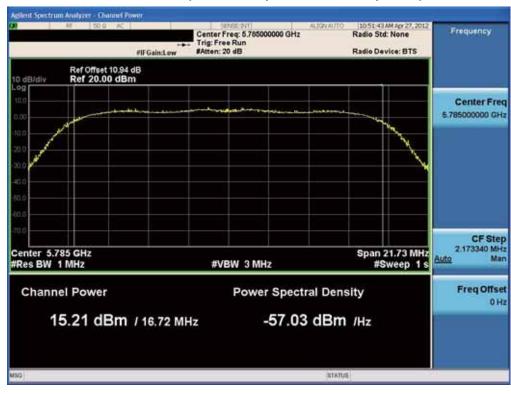
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Conducted Output Power (802.11a-CH 157) 6 Mbps



Conducted Output Power (802.11a-CH 157) 9 Mbps



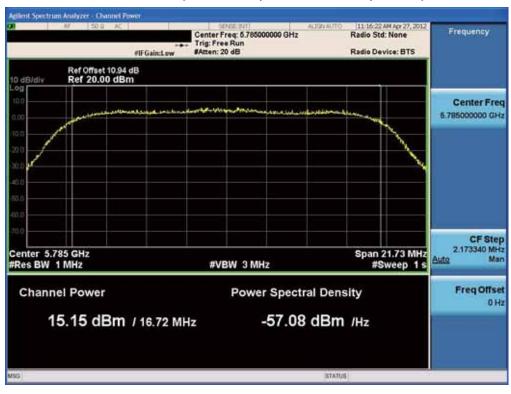
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880



Conducted Output Power (802.11a-CH 157) 12 Mbps



Conducted Output Power (802.11a-CH 157) 18 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

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Conducted Output Power (802.11a-CH 157) 24 Mbps



Conducted Output Power (802.11a-CH 157) 36 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

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Conducted Output Power (802.11a-CH 157) 48 Mbps



Conducted Output Power (802.11a-CH 157) 54 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

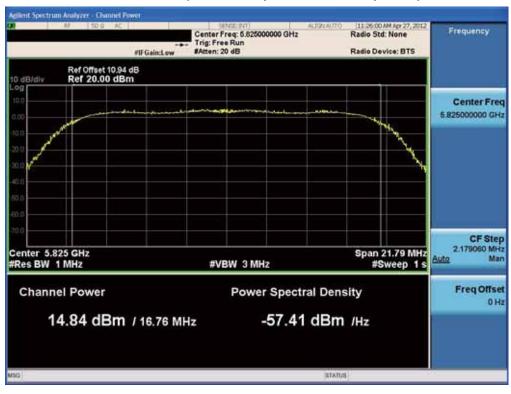
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Conducted Output Power (802.11a-CH 165) 6 Mbps



Conducted Output Power (802.11a-CH 165) 9 Mbps



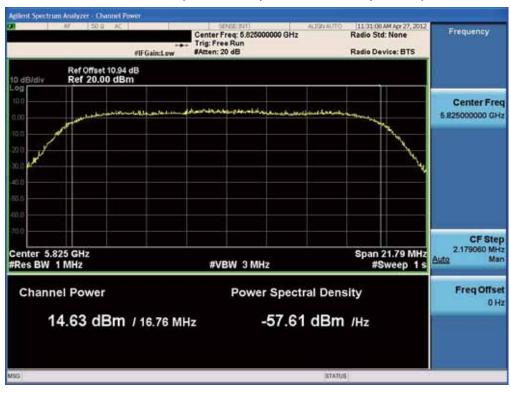
FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
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Conducted Output Power (802.11a-CH 165) 12 Mbps



Conducted Output Power (802.11a-CH 165) 18 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

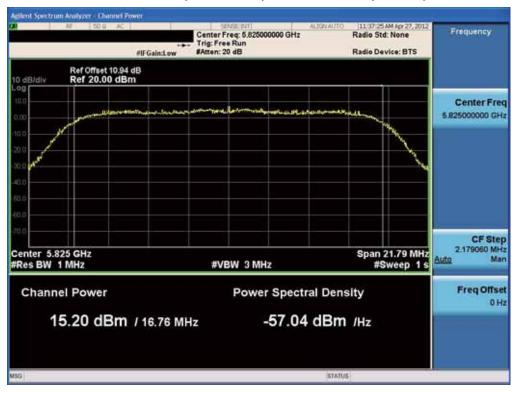
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Conducted Output Power (802.11a-CH 165) 24 Mbps



Conducted Output Power (802.11a-CH 165) 36 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880



Conducted Output Power (802.11a-CH 165) 48 Mbps



Conducted Output Power (802.11a-CH 165) 54 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type: Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	FCC ID:
HCTR1205FR16	May 10, 2012		ZNFP880

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